

AMENDMENTS TO THE CLAIMS

Claims 1-110 (Cancelled).

111. (Currently Amended) A composition comprising a therapeutically effective amount of at least one aldobionic acid selected from the group consisting of cellobionic acid, gentiobionic acid, isolactobionic acid, isomaltobionic acid, kojibionic acid, laminarabionic acid, **maltebionic acid**, melibionic acid, nigerobionic acid, rutinobionic acid, and sophorobionic acid, and as free acid, ester, salt, lactone, stereoisomeric, non-stereoisomeric, saturated or unsaturated, straight or branched chain, or cyclic forms thereof.
112. (Currently Amended) The composition of claim 111, wherein said aldobionic acid is **maltebionic acid** cellobionic acid.
113. (Previously Presented) The composition of claim 111, further comprising a topically active agent.
114. (Previously Presented) The composition of claim 113, wherein said topically active agent is selected from the group consisting of agents that improve or eradicate age spots, keratoses and wrinkles; local analgesics and anesthetics; antiacne agents; antieczema agents; wound healing agents; antibacterials; antiyeast agents; antifungal agents; antiviral agents; antidandruff agents; antidermatitis agents; antihistamine agents; antipruritic agents; antiemetics; antimotion sickness agents; antiinflammatory agents; antihyperkeratotic agents; antiperspirants; antipsoriatic agents; antiseborrheic agents; hair conditioners and hair treatment agents; antiaging and antiwrinkle agents; sunblock and sunscreen agents; skin lightening agents; depigmenting agents; vitamins; corticosteroids; tanning agents; humectants; hormones; amino acids; dipeptides; tripeptides; oligopeptides; polypeptides; retinoids; topical cardiovascular agents; hydroxyacids, ketoacids and related compounds; phenyl alpha acyloxyalkanoic acids and derivatives thereof; and N-acetyl-aldosamines, N-acetylamino acids and related N-acetyl compounds.

115. (Previously Presented) The composition of claim 113, wherein said topically active agent is selected from the group consisting of aclovate, acyclovir, acetylsalicylic acid, adapalene, albuterol, aluminum acetate, aluminum chloride, aluminum hydroxide, aluminum chlorohydroxide, amantadine, aminacrine, p-aminobenzoic acid, γ -aminobutyric acid, aminocaproic acid, aminosalicylic acid, amitriptyline, anserine, anthralin, ascorbic acid, ascorbyl palmitate, atropine, azelaic acid, bacitracin, bemegride, beclomethasone dipropionate, benzocaine, benzophenone, benzoyl peroxide, betamethasone dipropionate, betamethasone valerate, brompheniramine, bupivacaine, butoconazole, calcipotriene, camphor, capsaicin, carbamide peroxide, camosine, chitosan, chlorhexidine, chloroxylenol, chlorpheniramine, ciclopirox, clemastine, clindamycin, clioquinol, clobetasol propionate, clotrimazole, coal tar, cromolyn, crotamiton, cycloserine, dehydroepiandrosterone, desoximetasone, dexamethasone, diphenhydramine, doxepin, doxylamine, dyconine, econazole, erythromycin, estradiol, ethinyl estradiol, fluocinolide, fluocinolone acetonide, 5-fluorouracil, glutathione, griseofulvin, guaifenesin, haloprogin, hexylicsorcinol, homocarnosine, homosalate, hydrocortisone, hydrocortisone 21-acetate, hydrocortisone 17-valerate, hydrocortisone 17-butyrate, hydrogen peroxide, hydroquinone, hydroquinone monoether, hydroxyzine, ibuprofen, ichthammol, imiquimod, indomethacin, ketoconazole, ketoprofen, kojic acid, lidocaine, meclizine, mecloxycline, menthol, mepivacaine, methyl nicotinate, methyl salicylate, metronidazole, miconazole, minocycline, minoxidil, monobenzene, mupirocin, naftifine, naproxen, neomycin, nystatin, octyl methoxycinnamate, octyl salicylate, ophidine, ornithine, oxybenzone, oxiconazole, oxymetazoline, padimate O, permethrin, pheniramine, phenol, phenylephrine, phenylpropanolamine, piperonyl butoxide, podophyllin, podofilox, povidone iodine, polymyxins, pramoxine, prilocaine, procaine, promethazine propionate, propranolol, pseudoephedrine, pyrethrin, pyrilamine, resorcinol, retinal, 13-cis retinoic acid, retinoic acid, retinol, retinyl acetate, retinyl palmitate, salicylamide, salicylic acid, selenium sulfide, shale tar, sulconazole, sulfur, sulfadiazine, tazarotene, terbinafine, terconazole, tetracaine, tetracycline, tetrahydrozoline, thymol, tioconazole, tolnaftate, triamcinolone diacetate, triamcinolone acetonide, triamcinolone hexacetonide, triclosan, triprolidine, undecylenic acid, urea, vitamin E acetate, wood tar, zinc pyrithione, glycolic acid, lactic acid, methylallic acid, 4-hydroxy-mandelic acid, mandelic

acid, gluconolactone, N-acetyl-glucosamine, N-acetyl-proline, phenyl 2-acetoxyethanoic acid and diphenyl 2-acetoxyethanoic acid.

116. (Previously Presented) The composition of claim 111, further comprising an inorganic or organic alkali or amphoteric substance.

117. (Previously Presented) The composition of claim 116, wherein said inorganic alkali is selected from the group consisting of ammonium hydroxide, ammonium phosphate, ammonium carbonate, ammonium bicarbonate, sodium hydroxide, sodium carbonate, sodium bicarbonate, sodium acetate, sodium phosphate, and alkalis formed from potassium, calcium, magnesium, strontium, aluminum, zinc, and lithium.

118. (Previously Presented) The composition of claim 116, wherein said organic alkali is selected from the group consisting of organic amines, hydroxylamines, imines, guanidines, amine oxides, alkanolamines, alkoxyLATED amines, alkylamido alkylamines, polyamines, amino acid esters, amino acid amides, aminosaccharides, aminoalditols, aminocyclitols, fattyamines, and imidazolines.

119. (Previously Presented) The composition of claim 118, wherein said organic alkali is selected from the group consisting of diethanolamine, triethanolamine, isopropanolamine, diisopropanolamine, trisopropanolamine, aminobutanol, aminoethyl propanediol, aminomethyl propanol, aminomethyl propanediol, isopropylamine, dimethylaminoethanol, diethylaminoethanol, methylethanolamine, diisopropylamine, dipropyletriamine, glucamine, N-methylglucamine, morpholine, tromethamine, cocamines, soyamines, oleamines, stearamines, quaterniums, creatinine, glycine ethyl ester, arginine ethyl ester, lysine methyl ester, proline ethyl ester, citrulline benzyl ester, glycinamide, argininamide, prolinamide, lysinamide, glucosamines and glucosylamines, other glycosamines and glycosylamines, aminoinositols, chitosan, stearamidoethyl diethylamine, stearamidopropyl dimethylamine, stearamidoethyl diethanolamine, and quaternary ammonium hydroxide.

120. (Previously Presented) The composition of claim 116, wherein said amphoteric substance is selected from the group consisting of amino acids, peptides, polypeptides, proteins and related compounds.
121. (Previously Presented) The composition of claim 116, wherein said amphoteric substance is selected from the group consisting of glycine, arginine, lysine, cysteine, proline, glutamine, histidine, asparagine, tyrosine, ornithine, citrulline, creatine, creatinine, and tryptophan.
122. (Cancelled)
123. (Cancelled)
124. (Cancelled)
125. (Cancelled)
126. (Cancelled)
127. (Cancelled)
128. (Cancelled)
129. (Cancelled)
130. (Cancelled)
131. (Cancelled)
132. (Cancelled)
133. (Cancelled)
134. (Cancelled)
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136. (Cancelled)
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138. (Cancelled)
139. (Cancelled)
140. (Cancelled)
141. (Cancelled)
142. (Cancelled)
143. (Cancelled)
144. (Cancelled)
145. (Cancelled)
146. (Cancelled)
147. (Cancelled)
148. (Cancelled)
149. (Currently Amended) An antioxidant composition comprising a therapeutically effective amount of at least one aldobionic acid selected from the group consisting of cellobionic acid, gentiobionic acid, isolactobionic acid, isomaltobionic acid, kojibionic acid, ~~lactobionic acid~~, laminarabionic acid, ~~mallobionic acid~~, melibionic acid, nigerobionic acid, rutinobionic acid, and sophorobionic acid, as free acid, ester, salt, lactone, stereoisomeric, non-stereoisomeric, saturated or unsaturated, straight or branched chain, or cyclic forms thereof.
150. (Cancelled)

151. (Cancelled)

152. (Previously Presented) The antioxidant composition of claim 149, wherein the antioxidant composition is used for the prevention and/or treatment against damage from radiation, ionizing radiation, free radicals, laser, or other oxidative damages to the skin, hair, and nails.

153. (Cancelled)

154. (Cancelled)

155. (Cancelled)

156. (Cancelled)

157. (Cancelled)

158. (Cancelled)

159. (Previously Presented) A topical cosmetic composition comprising lactobionic acid or maltobionic acid, and N-acetyl-glucosamine, present as free acid, ester, salt, partial salt, lactone, saturated or unsaturated, stereoisomeric or non-stereoisomeric, straight or branched chain or cyclic form thereof.

160. (Previously Presented) A topical cosmetic composition comprising maltobionic acid and polyhydroxy acids selected from the group consisting of ribonolactone, gluconolactone, galactonolactone, glucoheptonolactone, glucuronolactone, galacturonolactone, glucarolactone and galactarolactone, wherein the maltobionic acids and polyhydroxy acids may be present as free acid, ester, salt, partial salt, lactone, saturated or unsaturated, stereoisomeric or non-stereoisomeric, straight or branched chain or cyclic form thereof.

161. (Previously Presented) A topical cosmetic composition comprising maltobionic acid and ascorbic acid present as free acid, ester, salt, partial salt, lactone, saturated or unsaturated, stereoisomeric or non-stereoisomeric, straight or branched chain or cyclic form thereof.

162. (Cancelled)